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CLAIM SET AS AMENDED

1. (Currently Amended) An internal combustion engine comprising:

a cylinder in which a piston is reciprocably fitted, the cylinder having a cylinder axis;

a cylinder head formed with an intake port having a first port and a second port

including, respectively, a first inlet slot and a second inlet slot opening into a combustion

chamber;

a valve mechanism for opening and closing a first intake valve and a second intake valve

for opening and closing the first port and the second port, respectively, the first valve and the

second valve each having a longitudinal axis; and

intake air control means for generating a swirl in the combustion chamber by intake air

flowing from the first port; and

a camshaft provided with a valve motion cam for opening and closing the first intake

valve, the camshaft having a rotational centerline perpendicular the cylinder axis,

wherein a straight perpendicular line orthogonal to a first plane, which is a plane

including the first inlet slot, is a the perpendicular line being either parallel to or coincident with

the longitudinal axis of the first intake valve,

that a plane including a the cylinder axis and extending in parallel with the rotational

centerline of a the camshaft provided with a valve motion cam for opening and closing the first

intake valve-is a first reference plane,

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that a plane including the cylinder axis and extending orthogonally to the rotational

centerline is a second reference plane, and

that a plane extending in parallel with the first reference plan is a first orthogonal plane,

the that a line of intersection <u>n1</u> between the first plane <u>which includes the first inlet slot</u>

and the first orthogonal plane inclines upwardly as it approaches from the a position near an

outer periphery of the combustion chamber toward the second reference plane at the first inlet

slot, and

wherein the first port includes a first port section having a passage shape which extends

substantially along the perpendicular line from the first inlet slot towards the in an upstream

direction by a predetermined length of the passage first port in a plan view, and

wherein the first port section having the passage shape has a cross section which

gradually and smoothly increases in size as it extends from the first inlet slot in the upstream

direction.

2. (Original) The internal combustion engine according to claim 1, wherein the first

port that includes the first port section extends a length from the first inlet slot towards the

upstream to a position radially outward from the combustion chamber in a plan view.

3. (Original) The internal combustion engine according to claim 2, wherein the first

port section has a passage shape approaching gradually to the second port as it approaches to

the first inlet slot.

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4. (Original) The internal combustion engine according to claim 3, wherein at the first

inlet slot a main stream of intake air is directed toward a position shifted toward the outer

periphery of the combustion chamber with respect to where the first inlet slot is located.

5. (Original) The internal combustion engine according to claim 1, and further

including a valve halting mechanism operatively positioned relative to the second intake valve

for switching transmission and non-transmission of a valve opening force from a second valve

lifter to the second intake valve.

6. (Original) The internal combustion engine according to claim 5, and further

including a drive mechanism for controlling the halting mechanism for selectively halting the

opening and closing operation of the second intake valve irrespective of a reciprocating motion

of a second valve lifter in a specified operating range of the internal combustion engine.

7. (Original) The internal combustion engine according to claim 6, wherein the drive

mechanism is operated to halt the opening and closing operation of the second intake valve in a

low-speed operating range.

8. (Original) The internal combustion engine according to claim 6, wherein the drive

mechanism is operated to halt the opening and closing operation of the second intake valve in a

low-load operating range.

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9. (Original) The internal combustion engine according to claim 5, wherein the valve

halting mechanism includes a cylindrical pin holder slidably fitted in a second valve lifter with a

slide pin slidably fitted in the pin holder and a return spring for urging the slide pin in a

predetermined direction.

10. (Original) The internal combustion engine according to claim 9, and further

including a stopper pin operatively positioned relative to said slide pin for preventing rotation of

the slide pin.

11. (Currently Amended) An internal combustion engine comprising:

an internal combustion engine including a cylinder in which a piston is reciprocably

fitted, the cylinder having a cylinder axis;

a cylinder head formed with an intake port having a first port and a second port

including, respectively, a first inlet slot and a second inlet slot opening into a combustion

chamber;

a first intake valve and a second intake valve formed as poppet valves for opening and

closing the first inlet slot and the second inlet slot, respectively, the first intake valve and the

second intake valve each having a valve stem and a bevel portion;

a valve mechanism for opening and closing-a the first intake valve and-a the second

intake valve for opening and closing the first inlet slot and the second inlet slot, respectively,

and for halting the second intake valve in a specified operating range;

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a camshaft provided with a valve motion cam for opening and closing the first intake

valve,

wherein the first intake valve formed of a poppet valve is disposed so as to gradually

approach a reference plane which includes a the cylinder axis and extends orthogonally to the a

rotational centerline of a the camshaft on which a valve motion cam for opening and closing the

first intake valve is provided as the an axis of a the valve stem approaches from the a side of

the a distal end of the valve stem to the a side of the bevel portion of the first intake valve in

plan view; and

wherein the first port includes a port section having a passage shape extending

substantially along the axis of the valve stem in a plan view from the first inlet slot towards the

in an upstream direction by a predetermined passage length, and

wherein the port section having the passage shape has a cross section which gradually

and smoothly increases in size as it extends from the first inlet slot in the upstream direction.

12. (Original) The internal combustion engine according to claim 11, wherein the valve

mechanism includes a valve halting mechanism operatively positioned relative to the second

intake valve for switching transmission and non-transmission of a valve opening force from a

second valve lifter to the second intake valve.

13. (Original) The internal combustion engine according to claim 12, and further

including a drive mechanism for controlling the halting mechanism for selectively halting the

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opening and closing operation of the second intake valve irrespective of a reciprocating motion

of a second valve lifter in the specified operating range of the internal combustion engine.

14. (Original) The internal combustion engine according to claim 13, wherein the drive

mechanism is operated to halt the opening and closing operation of the second intake valve in a

low-speed operating range.

15. (Original) The internal combustion engine according to claim 13, wherein the drive

mechanism is operated to halt the opening and closing operation of the second intake valve in a

low-load operating range.

16. (Original) The internal combustion engine according to claim 12, wherein the valve

halting mechanism includes a cylindrical pin holder slidably fitted in a second valve lifter with a

slide pin slidably fitted in the pin holder and a return spring for urging the slide pin in a

predetermined direction.

17. (Original) The internal combustion engine according to claim 16, and further

including a stopper pin operatively positioned relative to said slide pin for preventing rotation of

the slide pin.

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18. (New) The internal combustion engine according to claim 1, wherein the first port

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section has a cross section which is substantially circular in shape, the circular-shaped cross

section gradually and smoothly increases in size as the first port section extends from the first

inlet slot in the upstream direction.

19. (New) The internal combustion engine according to claim 10, wherein the port

section has a cross section which is substantially circular in shape, the circular-shaped cross

section gradually and smoothly increases in size as the port section extends from the first inlet

slot in the upstream direction.